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Application No.: 08/709,930 Page 2

a first articulate arm which has a passive joint that is coupled to a first end effector inserted into the incision, wherein the incision defines a first pivot point for said first end effector;

a first input device that exeates a first input command in response to an instruction from the surgeon; and,

a controller that is coupled to said first input device and said first articulate arm, said controller receives said first input command from said first input device and provides a first output command to said first articulate arm to move said first end effector relative to the first pivot point.

107. The system as recited in claim 106, further comprising a second articulate arm which has a second end effector, and a second input device which creates a second input command in response to an instruction from the surgeon, said controller receives said second input command from said second input device and provides a second output command to said second articulate arm to move said second end effector about a second pivot point located at a second incision of the patient.

108. The system as regited in claim 107, further comprising a third articulate arm that holds an endoscope, and a third input device which receives an instruction from the surgeon and which generates a third input command in response to the instruction, said controller receives said third input command and provides a third output command to said third articulate arm to move the endoscope about a third pivot point located at a third incision of the patient.

The system as recited in claim 108, wherein said first input device is a 109. master handle that is moved by the surgeon.

The system as fected in claim 109, wherein said first end effector 110. moves a scaled increment of a movement of said master handle.

The system as recited in claim 106, wherein said first end effector has a force sensor and said first input/device has an actuator that is coupled to said force sensor to

Philip S. Green
Application No.: 08/709,930
Page 3

apply a force to the surgeon that corresponds to a force sensed by said force sensor.

112. The system as recited in claim 111, wherein the force applied to the surgeon is a scaled increment of the force sensed by said force sensor.

113. A medical robotic system that can be controlled by a surgeon for use with a patient comprising:

a first articulate arm with a first end effector;

a first input device that creates a first input command in response to an instruction from the surgeon; and,

a computer that is coupled to said first input device and said first articulate arm, said computer receives said first input command from said first input device and provides a first output command to said first articulate arm to move said first end effector.

114. The system as recited in claim 113, wherein the instruction from the surgeon comprises a movement in a desired direction relative to an object displayed to the surgeon on a display device, and wherein the first output command moves the end effector in the desired direction relative to the object by pivoting a shaft coupling the end effector to the arm about an incision.--

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